



TECHNICAL DATA SHEET

SAFETY FILM 639 w/Dye

Safety Film 639 w/Dye is a water-based, wax emulsion with outstanding adhesion and durability on various substrates. It dries in about 15 minutes to a satiny film without losing its wax characteristics or lubricity. It can be used over lightly oiled surfaces and will dry to a tack-free surface.

Safety Film 639 w/Dye is a temporary protective coating to help prevent corrosion during storage and shipment of parts.

Safety Film 639 w/Dye is recommended for metal surfaces, i.e. aluminum, steel, stainless steel, copper, galvanized, and plated metals, where a waxy coating can be employed to give effective exterior or interior rust protection. Safety Film 639 w/Dye can be used to coat lightly oiled metal surfaces. A sample part should be tested to determine adhesion and film-forming properties when applying over lightly oiled or unclaimed surfaces. Since there are various types of oils, we recommend such a pretest for compatibility.

RECOMMENDED USES

Use as a torque reduction and corrosion resistant lubricant on various fasteners.

Use as a corrosion preventative and decorative coating on cast iron.

Use as an anti-graffiti coating over various surfaces including vinyl, rubber, plastic, painted surfaces, metal, and other surfaces.

Provides a dry, imperceptible barrier film over various surfaces. Graffiti adheres to the barrier film of **Safety Film 639 w/Dye** and not the coated surface.

Safety Film 639 w/Dye can be easily removed with a liquid alkaline cleaner.

Excellent release properties make it capable of being used as a mold release agent for flexible or rigid forms.

RECOMMENDED APPLICATIONS

Safety Film 639 w/Dye is a low viscosity liquid that can be applied by almost any commercial method; flow coat, immersion, wipe, or spray. The excellent wetting and bonding properties normally provide good adhesion and wetting over even lightly oiled or greasy surfaces; however, parts must be dried before stacking.

RECOMMENDED DILUTIONS

Working dilutions of **Safety Film 639 w/Dye** should be determined by the end user.

Safety Film 639 w/Dye may be diluted with water which will result in thinner films and reduced durability. **Safety Film 639 w/Dye** water emulsion protective coating can be diluted with tap water, but if the local water is very hard, dilution with deionized water is recommended.

DRYING

Drying time depends upon temperature, humidity, and air flow. At 75°F and 45% relative humidity, **Safety Film 639 w/Dye** dries to the touch in about 15 minutes when applied at full strength. Forced warm air and/or dilution will decrease the drying time.

TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance of concentrate	Milky emulsion
Appearance of Film	Clear satin
pH of concentrate	9.40
Viscosity, cps	15 – 20
Bulk density (lbs/gal)	8.4
% Solids	24
Softening point	155°F
Temperature stability	40° - 100°F
Coverage (sq. f.t./gl.)	2,400